

re-run

## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 09/812,485A  
Source: 1FW16  
Date Processed by STIC: 8/13/01

# ***ENTERED***

*re-run*



IFW16

## RAW SEQUENCE LISTING

DATE: 11/16/2004

PATENT APPLICATION: US/09/812,485A

TIME: 16:20:19

Input Set : N:\AMC\US09812485A.raw

Output Set: N:\CRF4\11162004\I812485A.raw

1 <110> APPLICANT: Kumagai, Yoshinari  
 2 Blacher, Russel  
 3 Yoneda, Toshiyuki  
 4 <120> TITLE OF INVENTION: Integrin Binding Motif Containing  
 5 Peptides and Methods of Treating Skeletal Diseases  
 6 <130> FILE REFERENCE: BEAR-006CIP  
 7 <140> CURRENT APPLICATION NUMBER: US/09/812,485A  
 8 <141> CURRENT FILING DATE: 2001-03-19  
 9 <150> PRIOR APPLICATION NUMBER: 09/641,034  
 10 <151> PRIOR FILING DATE: 2000-08-16  
 11 <160> NUMBER OF SEQ ID NOS: 50  
 12 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 14 <210> SEQ ID NO: 1  
 15 <211> LENGTH: 97  
 16 <212> TYPE: PRT  
 17 <213> ORGANISM: Artificial Sequence  
 18 <220> FEATURE:  
 19 <223> OTHER INFORMATION: peptidic compound  
 20 <400> SEQUENCE: 1  
 21 Asp Ser Gln Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg  
 22 1 5 10 15  
 23 Ile Gln His Asn Ile Asp Tyr Leu Lys His Leu Ser Lys Val Lys Lys  
 24 20 25 30  
 25 Ile Pro Ser Asp Phe Glu Gly Ser Gly Tyr Thr Asp Leu Gln Glu Arg  
 26 35 40 45  
 27 Gly Asp Asn Asp Ile Ser Pro Phe Ser Gly Asp Gly Gln Pro Phe Lys  
 28 50 55 60  
 29 Asp Ile Pro Gly Lys Gly Glu Ala Thr Gly Pro Asp Leu Glu Gly Lys  
 30 65 70 75 80  
 31 Asp Ile Gln Thr Gly Phe Ala Gly Pro Ser Glu Ala Glu Ser Thr His  
 32 85 90 95  
 33 Leu  
 35 <210> SEQ ID NO: 2  
 36 <211> LENGTH: 47  
 37 <212> TYPE: PRT  
 38 <213> ORGANISM: Artificial Sequence  
 39 <220> FEATURE:  
 40 <223> OTHER INFORMATION: peptidic compound  
 41 <400> SEQUENCE: 2  
 42 Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg Ile Gln His  
 43 1 5 10 15  
 44 Asn Ile Asp Tyr Leu Lys His Leu Ser Lys Val Lys Lys Ile Pro Ser  
 45 20 25 30

## RAW SEQUENCE LISTING

DATE: 11/16/2004

PATENT APPLICATION: US/09/812,485A

TIME: 16:20:19

Input Set : N:\AMC\US09812485A.raw

Output Set: N:\CRF4\11162004\I812485A.raw

```

46      Asp Phe Glu Gly Ser Gly Tyr Thr Asp Leu Gln Glu Arg Gly Asp
47          35              40              45
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 47
51 <212> TYPE: PRT
52 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
54 <223> OTHER INFORMATION: peptidic compound
55 <400> SEQUENCE: 3
56      Arg Gly Asp Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg
57          1              5              10              15
58      Ile Gln His Asn Ile Asp Tyr Leu Lys His Leu Ser Lys Val Lys Lys
59          20              25              30
60      Ile Pro Ser Asp Phe Glu Gly Ser Gly Tyr Thr Asp Leu Gln Glu
61          35              40              45
63 <210> SEQ ID NO: 4
64 <211> LENGTH: 47
65 <212> TYPE: PRT
66 <213> ORGANISM: Artificial Sequence
67 <220> FEATURE:
68 <223> OTHER INFORMATION: peptidic compound
69 <400> SEQUENCE: 4
70      Asp Ser Gln Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg
71          1              5              10              15
72      Ile Gln His Asn Ile Asp Tyr Leu Lys His Leu Ser Lys Val Lys Lys
73          20              25              30
74      Ile Pro Ser Asp Phe Glu Gly Ser Gly Tyr Thr Asp Arg Gly Asp
75          35              40              45
77 <210> SEQ ID NO: 5
78 <211> LENGTH: 44
79 <212> TYPE: PRT
80 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <223> OTHER INFORMATION: peptidic compound
83 <400> SEQUENCE: 5
84      Arg Gly Asp Ser Pro Val Lys Ser Lys Ser Thr His Arg Ile Gln His
85          1              5              10              15
86      Asn Ile Asp Tyr Leu Lys His Leu Ser Lys Val Lys Lys Ile Pro Ser
87          20              25              30
88      Asp Phe Glu Gly Ser Gly Tyr Thr Asp Leu Gln Glu
89          35              40
91 <210> SEQ ID NO: 6
92 <211> LENGTH: 44
93 <212> TYPE: PRT
94 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <223> OTHER INFORMATION: peptidic compound
97 <400> SEQUENCE: 6
98      Asp Ser Gln Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/812,485A

DATE: 11/16/2004

TIME: 16:20:19

Input Set : N:\AMC\US09812485A.raw

Output Set: N:\CRF4\11162004\I812485A.raw

```

99          1          5          10          15
100      Ile Gln His Asn Ile Asp Tyr Leu Lys His Leu Ser Lys Val Lys Lys
101          20          25          30
102      Ile Pro Ser Asp Phe Glu Gly Ser Gly Arg Gly Asp
103          35          40
105 <210> SEQ ID NO: 7
106 <211> LENGTH: 37
107 <212> TYPE: PRT
108 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: peptidic compound
111 <400> SEQUENCE: 7
112      Arg Gly Asp Thr His Arg Ile Gln His Asn Ile Asp Tyr Leu Lys His
113          1          5          10          15
114      Leu Ser Lys Val Lys Lys Ile Pro Ser Asp Phe Glu Gly Ser Gly Tyr
115          20          25          30
116      Thr Asp Leu Gln Glu
117          35
119 <210> SEQ ID NO: 8
120 <211> LENGTH: 41
121 <212> TYPE: PRT
122 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: peptidic compound
125 <400> SEQUENCE: 8
126      Asp Ser Gln Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg
127          1          5          10          15
128      Ile Gln His Asn Ile Asp Tyr Leu Lys His Leu Ser Lys Val Lys Lys
129          20          25          30
130      Ile Pro Ser Asp Phe Glu Arg Gly Asp
131          35          40
133 <210> SEQ ID NO: 9
134 <211> LENGTH: 27
135 <212> TYPE: PRT
136 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: peptidic compound
139 <400> SEQUENCE: 9
140      Arg Gly Asp Leu Lys His Leu Ser Lys Val Lys Lys Ile Pro Ser Asp
141          1          5          10          15
142      Phe Glu Gly Ser Gly Tyr Thr Asp Leu Gln Glu
143          20          25
145 <210> SEQ ID NO: 10
146 <211> LENGTH: 38
147 <212> TYPE: PRT
148 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: peptidic compound
151 <400> SEQUENCE: 10

```

## RAW SEQUENCE LISTING

DATE: 11/16/2004

PATENT APPLICATION: US/09/812,485A

TIME: 16:20:19

Input Set : N:\AMC\US09812485A.raw

Output Set: N:\CRF4\11162004\I812485A.raw

```

152   Asp Ser Gln Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg
153       1           5           10           15
154   Ile Gln His Asn Ile Asp Tyr Leu Lys His Leu Ser Lys Val Lys Lys
155           20           25           30
156   Ile Pro Ser Arg Gly Asp
157           35
159 <210> SEQ ID NO: 11
160 <211> LENGTH: 24
161 <212> TYPE: PRT
162 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: peptidic compound
165 <400> SEQUENCE: 11
166   Arg Gly Asp Leu Ser Lys Val Lys Lys Ile Pro Ser Asp Phe Glu Gly
167       1           5           10           15
168   Ser Gly Tyr Thr Asp Leu Gln Glu
169           20
171 <210> SEQ ID NO: 12
172 <211> LENGTH: 32
173 <212> TYPE: PRT
174 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: peptidic compound
177 <400> SEQUENCE: 12
178   Asp Ser Gln Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg
179       1           5           10           15
180   Ile Gln His Asn Ile Asp Tyr Leu Lys His Leu Ser Lys Arg Gly Asp
181           20           25           30
183 <210> SEQ ID NO: 13
184 <211> LENGTH: 21
185 <212> TYPE: PRT
186 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: peptidic compound
189 <400> SEQUENCE: 13
190   Arg Gly Asp Val Lys Lys Ile Pro Ser Asp Phe Glu Gly Ser Gly Tyr
191       1           5           10           15
192   Thr Asp Leu Gln Glu
193           20
195 <210> SEQ ID NO: 14
196 <211> LENGTH: 28
197 <212> TYPE: PRT
198 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: peptidic compound
201 <400> SEQUENCE: 14
202   Asp Ser Gln Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg
203       1           5           10           15
204   Ile Gln His Asn Ile Asp Tyr Leu Lys Arg Gly Asp

```

## RAW SEQUENCE LISTING

DATE: 11/16/2004

PATENT APPLICATION: US/09/812,485A

TIME: 16:20:19

Input Set : N:\AMC\US09812485A.raw

Output Set: N:\CRF4\11162004\I812485A.raw

```
205                20                25
207 <210> SEQ ID NO: 15
208 <211> LENGTH: 18
209 <212> TYPE: PRT
210 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: peptidic compound
213 <400> SEQUENCE: 15
214      Arg Gly Asp Ile Pro Ser Asp Phe Glu Gly Ser Gly Tyr Thr Asp Leu
215      1                5                10                15
216      Gln Glu
218 <210> SEQ ID NO: 16
219 <211> LENGTH: 25
220 <212> TYPE: PRT
221 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: peptidic compound
224 <400> SEQUENCE: 16
225      Asp Ser Gln Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg
226      1                5                10                15
227      Ile Gln His Asn Ile Asp Arg Gly Asp
228      20                25
230 <210> SEQ ID NO: 17
231 <211> LENGTH: 15
232 <212> TYPE: PRT
233 <213> ORGANISM: Artificial Sequence
234 <220> FEATURE:
235 <223> OTHER INFORMATION: peptidic compound
236 <400> SEQUENCE: 17
237      Arg Gly Asp Asp Phe Glu Gly Ser Gly Tyr Thr Asp Leu Gln Glu
238      1                5                10                15
240 <210> SEQ ID NO: 18
241 <211> LENGTH: 19
242 <212> TYPE: PRT
243 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: peptidic compound
246 <400> SEQUENCE: 18
247      Asp Ser Gln Ala Gln Lys Ser Pro Val Lys Ser Lys Ser Thr His Arg
248      1                5                10                15
249      Arg Gly Asp
251 <210> SEQ ID NO: 19
252 <211> LENGTH: 12
253 <212> TYPE: PRT
254 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: peptidic compound
257 <400> SEQUENCE: 19
258      Arg Gly Asp Gly Ser Gly Tyr Thr Asp Leu Gln Glu
```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/812,485A

DATE: 11/16/2004  
TIME: 16:20:20

Input Set : N:\AMC\US09812485A.raw  
Output Set: N:\CRF4\11162004\I812485A.raw

ase Note:

of n and/or Xaa have been detected in the Sequence Listing. Please review the  
uence Listing to ensure that a corresponding explanation is presented in the <220>  
<223> fields of each sequence which presents at least one n or Xaa.

#:43; Xaa Pos. 2,4,6,8,10,11

#:50; Xaa Pos. 3

VERIFICATION SUMMARY

DATE: 11/16/2004

PATENT APPLICATION: US/09/812,485A

TIME: 16:20:20

Input Set : N:\AMC\US09812485A.raw

Output Set: N:\CRF4\11162004\I812485A.raw

M:270 C: Current Application Number differs, Wrong Format

42 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 45 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:43  
 46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0  
 55 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 57 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44  
 67 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 69 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:45  
 79 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 81 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:46  
 91 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 93 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:47  
 103 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 105 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:48  
 115 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 117 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:49  
 129 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
 130 M:281 W: Numeric Fields not Ordered, <222> Sort in ascending order!  
 133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0